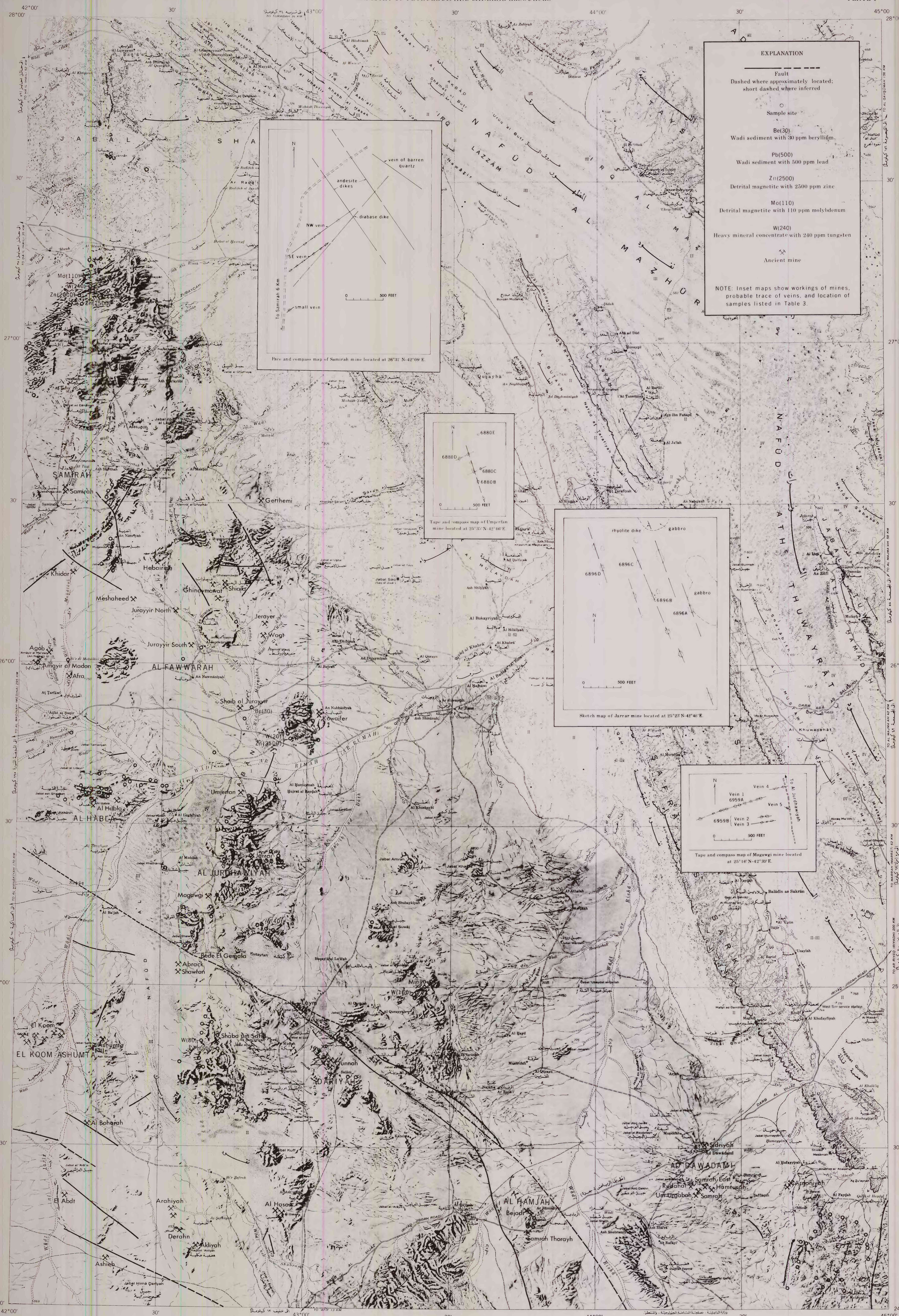
U.S. GEOLOGICAL SURVEY
SAUDI ARABIAN PROJECT

KINGDOM OF SAUDI ARABIA
MINISTRY OF PETROLEUM AND MINERAL RESOURCES

70-240

SA(IR)-121
PLATE 1


EXPLANATION
Fault
Dashed where approximately located; short dashed where inferred
Sample site
Be(30)
Wadi sediment with 30 ppm beryllium
Pb(500)
Wadi sediment with 500 ppm lead
Zn(2500)
Detrital magnetite with 2500 ppm zinc
Mo(110)
Detrital magnetite with 110 ppm molybdenum
W(240)
Heavy mineral concentrate with 240 ppm tungsten
Ancient mine
NOTE: Inset maps show workings of mines, probable trace of veins, and location of samples listed in Table 3.
vein of barren quartz
andesite dikes
diabase dike
NW vein
SE vein
small vein
To Samirah 6 Km
0 500 FEET
Pace and compass map of Samirah mine located at 26°31' N-42°09' E.
6880E
6880D
6880C
6880B
Tape and compass map of Umjerfan mine located at 25°35' N-42°46' E.
rhyolite dike
gabbro
6896C
6896D
6896B
6896A
Sketch map of Jarrar mine located at 25°23' N-42°48' E.
Vein 1
6959A
Vein 4
Vein 5
6959B
Vein 2
Vein 3
To Al Jurdhawiyah
Tape and compass map of Magawgi mine located at 25°16' N-42°39' E.
Mo(110)
W(240)
Zn(2000)
Zn(2500)
W(160)
Be(30)
W(200)
Zn(3500)
W(40)
W(80)
Pb(500)
JABAL SHA
AL LAZZAM
NAFUD
AL MANZHUR
AL FAWWARAH
SAMIRAH
AL HABLA
AL JURDHAWIYAH
EL KOOM ASHUMTA
DARIYAH
AD DAWADAMI
AL HAMJAH
ATHTHUWAYRAT
Samirah
Gerthemi
Khidar
Hebairah
Meshaheed
Ghinaymawat
Shiaila
Jurayyir North
Jerayer
Wagt
Jurayyir South
Agob
Amgyir al Madan
Afra
Shaib al Jurayyir
Kowaifer
Umjerfan
Al Habla
Jarrar
Magawgi
Bede El Gemala
Abrack
Shawfan
Minya
Tayn
El Koom
Ashumta
Shaba Um Safia
Qunnah
Halee
A Boharah
El Abdt
Arahiyah
Al Hasa
Derahn
Akliyah
Ashieb
Bejadi
Samrah Thorayh
Rudahal
Um Urgabah
Samrah East
Hamtirah
Samrah
Sidriyah
Argoniyah
Baladin as Sakran
Az Zilfi
Qusayba
Buraydah
Unayzah
Ar Rass
Al Mithnab
Al Bukayriyah
Ash Shihiyah
Ash Dhibiyah
Ad Dulaymiyah
Al Batrah
Al Khabra
Ar Ruwaydat
Ar Rasa
Al Bahawi
Ash Shinanah
An Nabhaniyah
Al Humaymah
Hujrat al Baydah
Al Khushayhi
Jabal Amran
Jabal Khadra
Ash Shubaykiyah
Jabal Suwaj
Buqay'a al Lu'ah
Nifi
Jabal 'Ubaydat al Qullah
Al Qurayyah
Al Hayd
Nufayyid ash Shaykh
Jabal Tuwayq
Jabal Sanam
Jabal Abaa
Jabal Wasit
Jabal Kuff
Jabal al 'Arays
Jabal Hima Dariyah
Jabal Shuraym
Jabal Abu Jarad
Jabal al Aydaniyah
Jabal Humayyan
Jabal Ghusab
Jabal Burmah
Jabal Samnan
Jabal Shuqran
Jabal Sharaban
Jabal Tamariyah
Jabal al Udayri
Jabal asn Shaqran
Jabal Akkash
Jabal Ghubi
Jabal Sanam
Jabal Ghanimah
Jabal Khathariq
Jabal Shawr
Jabal Tiwal
Jabal Sharthah
Jabal Uraynibah
Jabal al Qurnym
Jabal Ghuraymah
Jabal Ghanimah
Jabal Sharthah
Jabal Tiwal